Atty Docket No. A2004015
Ralf Kamphausen, et al.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	§ §	
Avid Technology, Inc.	§ § §	
Serial No.: 10/803,330	§ § §	Examiner: Joshua D. Schneider
Filed: March 17, 2004	§ §	
Title: DEVICE AND METHOD FOR ELECTRONIC DATA CONVERSION	§ § § § §	

RULE 131 DECLARATION OF SOENKE BRANDT

The undersigned declarant, a co-inventor/co-applicant in the above identified application states:

1. I am Senior Hardware Engineer of Avid Development GmbH ("Avid Development"), a subsidiary of Avid Technology, Inc. ("Avid".) I am a co-inventor of the subject matter presently claimed in the above-identified patent application. I have been employed by Avid Development (which is a successor company to Pinnacle Systems GmbH) since September 2000. My duties at Avid Development include the design and development of hardware products. The matters set forth herein are based on my personal knowledge or reference to company records.

2. I have reviewed the above application and the amended claims before the Examiner and the outstanding PTO Office Action dated 06 September 2007, and the machine translation of Japanese Patent No. 2004015181 ("Shingo") used in

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rejecting the pending patent claims, and state the following regarding the invention of the present application in relation to prior art.

3.   The present invention as described and claimed comprises a method for transferring data between a video application, executing in a computer system, and a digital video device.

4.   I and my co-inventors conceived of and reduced the claimed invention to practice prior to 15 January 2004, the effective date of the Shingo reference.

5.   Provided as Exhibits hereto are portions of copies of Pinnacle documents, all created prior to the effective date of the Shingo reference, that demonstrate our conception and reduction to practice of the presently claimed invention prior to the effective date of the Shingo reference. In particular:

- Exhibit A comprises a portion of the first draft of a specification for the "Marvin" project which included the concept of the presently claimed invention;
- Exhibit B comprises a portion of the specification for the intermediate packet ("command") format between a computer and a converter device;
- Exhibit C comprises a portion of an engineering change order that released to manufacturing a first product containing the presently claimed inventive technology. This marks the completion of work on this project.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United State Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Respectfully submitted,

Dated: March 6, 2008

By: _____

Soenke Brandt

In re application no. 10/803,330
Exhibit A to Rule 131 declaration of Soenke Brandt

Project	: MARVIN	Date	: ~~▓▓▓▓~~
Editor	: Sönke Brandt	Page	: 1 / 6

Project Specification
- Pinnacle Systems confidential -

1. Project: **MARVIN**

Project Manager :   Rainer Miethling

Product Manager :   *tbd*

Revision History		
Version	**Changed by/when**	**Change**
0.1	SB 09◄~~▓▓▓~~	Initial version

1.1. Overview

MARVIN is the major building block for an external USB 2.0 device with analog audio and video as well as digital Firewire DV/microMV capabilities.

1.2. Keyfeature(s)

- ASIC in advanced, low-power 0.18μm process
- USB 2.0 high-speed interface to PC (480 Mbit/s)
- uncompressed analog video and audio i/o
- IEEE1394-to-USB2-bridge for DV, Digital8, microMV devices
- integrated analog components to drive down costs:
    - PHYs for USB2, IEEE1394
    - *analog video encoder (optional)*
    - *PLLs for audio, IEEE1394 clocks (optional)*

Project Specification
Version 0.1 ◄~~▓▓▓▓▓~~
Pinnacle Systems confidential

PINNACLE
SYSTEMS

Project	: MARVIN	Date	: ▓▓▓▓▓▓▓
Editor	: Sönke Brandt	Page	: 2 / 6

2. Table of Contents

Project Specification
Version 0.1 - ▓▓▓▓▓▓▓
Pinnacle Systems confidential

PINNACLE
S Y S T E M S

In re application no. 10/803,330
Exhibit B to Rule 131 declaration of Soenke Brandt

Pinnacle Systems, Inc.
Confidential

Marvin / Floyd
USB transmission format

DRAFT2

Marvin / Floyd   Packet Format
                                                                      DRAFT2▬▬▬▬

Table of Contents

Revision History

Date, Version	Changed by	Comments
▬▬▬▬▬	SB	Created

Abstract

This document describes the data structures and packet flow between host PC and Floyd in the so-called "discrete" (i.e. non-ASIC) implementation of Marvin.

Floyd is an integrated circuit holding custom logic. It adds some infrastructure (memory, mostly) for a PCI-based dataflow between Bender and NET2280 inside the external Marvin device.

This document does only describe the *mechanisms* for data exchange between Bender and the host in the discrete Marvin implementation. It does not describe the actual content and structure of this communication flow. For IEEE1394, please refer to the "1394 Open Host Controller Interface Specification" (Release 1.1, January 6, 2000) for further details. For AV data, further details are *tbd*.

In re application no. 10/803,330
Exhibit C to Rule 131 declaration of Soenke Brandt

PINNACLE SYSTEMS

Pinnacle Systems GmbH, Germany

Type of Article
- ☒ Hardware
- ☐ Software
- ☐ Documentation
- ☐ Package
- ☐ Sales Article
- ☐ Marketing

Kind of ECO
- ☐ Pilot-Run
- ☐ Mass-Production
- ☒ Release
- ☐ Document Maintenance
- ☐ End of Life

ECR Classification
- ☐ Emergency
- ☒ Regular
- ☐ Temporary

ECO valid for
- ☐ Plant 2500
- ☒ Plant 3000
- ☐ Plant 3020

Status
- ☐ Approved
- ☐ Rejected

Status valid for Munich (Plant 2500)

Group	Name	required for Approval	Approved
Hardware Develop.		☐	☐
QAE		☐	☐
Product Manager		☐	☐

Originator: Frank Peeters   **Request Date:** ▟▆▆▆   **Signed by:** ▟▆▆▆   **Release Date:** CCT

Actions
- ☐ Update of BOM
- ☐ Running Change
- ☐ New Production
- ☐ Work in Process (WIP)
- ☐ Update of Sales Stock
- ☐ Update of RfS Stock
- ☐ Update of Products in Field
- ☐ Obsolete SKU

Valid for
- ☐ Pinnacle US
- ☐ Pinnacle EU
- ☐ Pinnacle FE
- ☐ Pinnacle Japan
- ☒ Board-Production
- ☐ Kitting
- ☐ Service
- ☐ Internal only

Disposition of old parts:
- ☐ Scrap
- ☐ Rework
- ☐ Use as is
- ☐ Other (refer Description)

Cost

Product-Hierarchie
- ☒ 30...Home Video
- ☐ 25...Adva. Video
- ☐ 22...Fast Division
- ☐ 40...Cons. Audio
- ☐ 31...Dazzle
- ☐ other

Part-Number	Description	New Revision
203560750	Board Moviebox USB2 Deluxe Marvin V1.2	01
51016552	PCB Marvin V1.2 4L (panel 2pcs) *	
51015559	FPGA EP1C3 1.5/3.3V Speed=8 TQFP144 @	

Reason of Change / Release Note

Release

Description of Change

Release for mass production

FO 730-06 ECR-ECO Change Control

Ausgabedatum : ▟▆▆▆

PAGE 20/20 * RCVD AT 3/6/2008 11:04:38 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-4/15 * DNIS:2738300 * CSID:16176230482 * DURATION (mm-ss):07-34